

# ***Interim DII COE NT Guidance for Achieving NT Parity***

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# Background

*DII AF NT Special Interest Group*

- **9/97 Dr. Perry & DISA Engineering Office Meeting to Clarify NT Guidance and Recommendations on I&RTS**
  - Embracing of Logo Specifications
  - Transition of DII COE Kernel to Industry
- **1/98 AF Conference Brief to DII COE Chief Engineer on DII COE v4.0 NT Parity Requirements**
  - Kernel, Infrastructure Services & Common Support Applications
- **NTAG Priority 1 Tasks Focused on DII COE NT Kernel**
  - Integration & Run-Time Specification (I&RTS)
    - » Development & Segmentation Guidance
  - Certification
  - Security

# I&RTS - Development Guidance (Development of Well-Behaved

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## Apps)

- **Recommendations**

- Adopt (by Reference) for DII COE v4.0 (Tasks 1.1, 3.1, 3.2, 3.3)
    - » **Designed for Windows NT Logo Handbook**
    - » **Platform Software Development Kit**
    - » **Windows Interface Guidelines for Software Design**
  - **Update Documentation (I&RTS, Programmers Reference Guide, Consolidated Installation Guide, etc.) (Tasks 4.1 - 4.6)**

- **Next Focus Area**

- **Evaluate ISV Designed for BackOffice Logo (Task 3.6)**
    - » **Address Middle Tier (Application Server Services) of DII COE Architecture ( Tasks 5.1 - 5.10)**
  - **DoD Participation in Logo Specification Refinement and Evolution (Task 3.6)**

# I&RTS - Segmentation Guidance (How to Segment)

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- **Recommendation**
  - **Current Segmentation Guidance for DII COE v3.0-3.3**
    - » **Include Creation of Segment Descriptor Files (SDF)**
    - » **Consider Waivers for Programs Transitioning between DII COE v3.3 and v4.0**
    - » **Follow Logo Program where Possible**
  - **InstallShield for DII COE NT v4.0 (Tasks 2.1, 2.2, 3.4)**
    - » **DoD Templates to Preserve DII COE Secure NT I&C**
    - » **Vendor/Government Coalition Building DoD Templates**
  - **Support Current & Future Installer Environments until NT v5.0**
  - **Update Documentation (I&RTS, How to Segment Guide, Style Guide, API Reference Guide, etc. ) (Tasks 4.1 - 4.6)**
- **Next Focus Area**
  - **Evaluate Impacts of NT v5.0 (Tasks 6.1 - 6.6)**

# I&RTS - Compliance Guidance

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- **Recommendation**
  - **Self Assessment (e.g., Checklist Assessment) \***
    - » Developers encouraged to Use VeriTest Logo Compliance Freeware (Analyze.exe)
  - **Integration Testing (e.g., CFI and DCTF Testing) \* (Task 1.4)**
  - **Update Documentation (I&RTS Checklist, etc.) (Tasks 4.1 - 4.6)**
- **Option**
  - **Logo Certification (Task 1.4 )**
    - » DISA (CFI, DCTF) Certification
    - » Out-Source Certification (e.g., Veritest)
    - » Either/Both
- **Next Focus Area**
  - **Map Logo Specification Requirements to DII COE Compliance Levels (Task 3.5)**

# Security

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- **Recommendations**
  - **Adoption of Secure NT I&C Guide (Task 4.4)**
    - » **Address Security Issues Raised by DODIIS Security Assessment**
  - **Utilize Windows NT Security Utilities Infrastructure Services Component (SECUTL) (Task 1.2)**
- **Next Focus Area**
  - **Automate Security I & C (Task 1.3)**
  - **Review of NT Security Utilities (Task 6.1)**

# Conclusion

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- **Recommendations are an Essential First Step to Achieve NT Parity for Kernel Level Services**
- **Achieves Goal to Transition Kernel to Industry**
- **Promotes GOTS and COTS Interoperability While Preserving DoD Security Requirements**
- **Future Efforts to Focus on Achieving NT Parity**
  - **Middle Tier (Application Server Services) of DII COE Architecture**
    - » **Infrastructure Services**
    - » **Common Support Applications**
  - **Windows NT v5.0 Impacts**

***DII COE April 98 NTAG***  
***DII COE & NT ... Interim Guidance***  
***Questions ?***

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